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Substitute for form 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/018,406
				Filing Date	December 13, 2001
				First Named Inventor	Charles E. Wickersham, Jr.
				Art Unit	1742
				Examiner Name	
Sheet	1	of	4	Attorney Docket Number	TSO 190 P2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MA		US-2,790,216	4-30-1957	Hunter	
MA		US-4,054,173	10-18-1977	Hickam	
MA		US-4,568,007	2-4-1986	Fishler	
MA		US-5,160,388	11-3-1992	Legresy et al.	
MA		US-5,369,063	11-29-1994	Gee et al.	
MA		US-5,406,850	4-18-1995	Bouchard et al.	
MA		US-5,559,614	9-24-1996	Urbish et al.	
MA		US-5,636,681	6-10-1997	Sulzer et al.	
MA		US-5,738,767	4-14-1998	Coad et al.	
MA		US-5,827,409	10-27-1998	Iwata et al.	

FOREIGN PATENT DOCUMENTS						
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MA		EP 0 211 401 B1	05-06-1992	General Electric Company		
MA		EP 0 418 846 B1	02-08-1995	Honeywell, Inc.		
MA		EP 0 665 193 A2	08-02-1995	Intevac, Inc.		
MA		EP 0 467 659 B1	03-06-1996	Sharp Kabushiki Kaisha		

Examiner Signature	Melvyn Andrews	Date Considered	11-20-03
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³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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ma		US-5,887,481	3-30-1999	Leroy et al.	
ma		US-5,943,559	8-24-1999	Maeda	
ma		US-5,955,673	9-21-1999	Leroy et al.	
ma		US-5,989,782	11-23-1999	Nishiki et al.	
ma		US-6,001,227	12-14-1999	Pavate et al.	
		US-6,017,779	1-25-2000	Miyasaka DUPLICATE	
ma		US-6,019,657	2-1-2000	Chakvorty et al.	
ma		US-6,020,946	2-1-2000	Callegari et al.	
ma		US-6,057,557	5-2-2000	Ichikawa	
ma		US-6,139,701	10-31-2000	Pavate et al.	

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ma		EP 0 412 843 B1	05-29-1996	Sharp Kabushiki Kaisha		
ma		EP 0 561 161 B1	04-23-1997	Corning Incorporated		
ma		WO 99/64854	12-16-1999	Tosoh SMD, Inc.		
ma		WO 00/15863	3-23-2000	Tosoh SMD, Inc.		

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				Art Unit	1752
				Examiner Name	
Sheet	4	of	4	Attorney Docket Number	TSO 190 P2

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		*BARNES, M.S. et al., <i>Phys. Rev. Letter</i> , (1992) 68, 313.	
		*GOREE J. et al., <i>J. Vac. Sci. Technol.</i> , (1992) A10, 3540.	
		*NADEL, S.J. et al., <i>35th Tech. Conf. Proc. Society of Vacuum Coaters</i> , (1992) 365.	
		*ANDERSON, L., <i>35th Tech. Conf. Proc. Society of Vacuum Coaters</i> , (1992) 325.	
		*SCHOLL, R.A., <i>37th Tech. Conf. Proc. Society of Vacuum Coaters</i> , (1994) 312.	
		*BAILEY, R.S. et al., <i>VMIC Conference, ISMIC</i> , (1994) 317.	
		*LEE, F. et al., <i>Microcontamination</i> , (1994) 12, 33.	
ma		DANOVICH, D. et al., "Sputtering Issues for Flat-Panel Displays," <i>Information Display</i> , (November 1995), pp. 26-27, 30-31.	
		*TAKAHASHI, K.M. et al., <i>J. Vac. Sci. Technol.</i> , (1996), A14, 2983.	
		*SELWYN, G.S. et al., <i>J. Vac. Sci. Technol.</i> , (1997) A15, 2023.	
		*EERNISSE, E.P. et al., <i>J. Appl. Phys.</i> , (1997) 48, 91	
		*MONTEIRO, O.R. et al., <i>IEEE Trans. Plasma Science</i> , (1999) 27, 1030.	
		*ABBURI, M. et al., <i>Solid State Technology</i> , (1999) 42, 55.	

Examiner Signature	<i>Melvyn Andrews</i>	Date Considered	11-20-03
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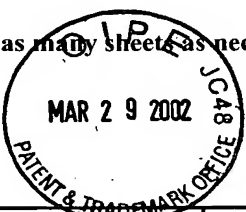
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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		*SELWYN, G.S. et al., <i>Appl. Phys. Letter</i> , (1876) p. 57.	
		*VON GÜNTHERSCHULZE, A., <i>Z. Physik</i> , (1933) 86, 778.	
		*FREITAG, W.O. et al., <i>2nd Symposium on Deposition of Thin Films by Sputtering</i> , CVC, Rochester, NY, (June 1967) p. 92.	
		*ROBINSON, I.E. et al., <i>J. Nuclear Mat.</i> , (1976) 63, 432.	
		*WEHNER, G.K., <i>J. Vac. Sci. Technol.</i> , (1985) A3, 1821.	
		*ROTH, R.M. et al., <i>Appl. Phys. Letter</i> , (1985) 46, 253.	
		*SPEARS, K.G. et al., <i>IEEE Trans. Plasma Sci.</i> , (1986) PS 14, 179.	
		*SELWYN, G.S. et al., <i>J. Vac. Sci. Technol.</i> , (1989) A7, 2758.	
		*JELLUM, G.M. et al., <i>J. Appl. Phys.</i> , (1990) 67, 6490.	
		*ANDERSON, H.M. et al., <i>J. Applied Physics</i> , (1990) 67, 3999.	
		*SELWYN, G.S. et al., <i>J. Vac. Sci. Technol.</i> , (1990) A8, 1726.	
		*AKARI, K. et al., <i>Surf. Coatings & Technol.</i> , (1990) 43-44, 312.	
		*SMADI, M.M. et al., <i>J. Vac. Sci. Technol.</i> , (1992) B10, 30.	
		*LOGAN, J.S. et al., <i>J. Vac. Sci. Technol.</i> , (1992) A10, 1875.	
		*YOO, W.J. et al., <i>Appl. Phys. Letter</i> , (1992) 60, 1073.	
ma		*FOSTER, H.I. et al., "A Modular Approach to Sputter Coating of Flat Panel Displays," <i>Society of Vacuum Coaters 35th Annual Technical Conference</i> (1992) pp. 357-361.	

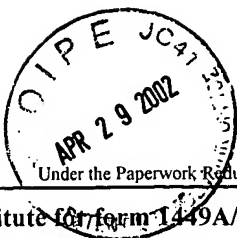
Examiner Signature	<i>melwyn Andrews</i>	Date Considered	11-20-03
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				Application Number	10/018,406
				Filing Date	December 13, 2001
				First Named Inventor	Charles E. Wickerson, Jr.
				Art Unit	1752
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	TSO 190 P2

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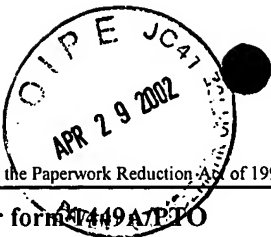
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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ma		FREITAG, W.O. et al., "Diode Sputtering of Cermet Films," <i>2nd Symposium on Deposition of Thin Films by Sputtering</i> , University of Rochester and Consolidated Vacuum Corporation, Rochester, NY, June 1967, pp. 92-96.	
ma		ROBINSON, J.E. et al., "Models for Chunk Sputtering," <i>Journal of Nuclear Materials</i> , 1976, Vol. 63, pp. 432-437, North-Holland Publishing Company.	
ma		EERNISSE, E.P. et al., "Role of Integrated Lateral Stress in Surface Deformation of He-Implanted Surfaces," <i>Journal of Applied Physics</i> , January 1, 1977, Vol. 48, No. 1, pp. 9-17, American Institute of Physics.	
ma		ROTH, R.M. et al., "Spatial Dependence of Particle Light Scattering in an RF Silane Discharge," <i>Appl. Phys. Letter</i> , February 1, 1985, Vol. 46, No. 3, pp. 253-255, American Institute of Physics.	
ma		WEHNER, G.K., "Cone Formation as a Result of Whisker Growth on Ion Bombarded Metal Surfaces," <i>J. Vac. Sci. Technol.</i> , July/August 1985, A 3 (4), pp. 1821-1835, American Vacuum Society.	
ma		SPEARS, K.G. et al., "Particle Distributions and Laser-Particle Interactions in an RF Discharge of Silane," <i>IEEE Transactions on Plasma Science</i> , April 1986, Vol. PS-14, No. 2, pp. 179-187, IEEE.	
ma		SELWYN, G.S. et al., "In Situ Laser Diagnostic Studies of Plasma-Generated Particulate Contamination," <i>J. Vac. Sci. Technol.</i> , July/August 1989, A 7, (4) pp. 2758-2765, American Vacuum Society.	
ma		ANDERSON, H.M. et al., "Particulate Generation in Silane / Ammonia RF Discharges," <i>J. Applied Physics</i> , May 1, 1990, Vol. 67, No. 9, pp. 3999-4011, American Institute of Physics.	

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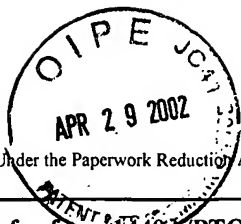
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ma		JELLUM, G.M. et al., "Particulates in Aluminum Sputtering Discharges," <i>J. Appl. Phys.</i> , May 15, 1990, Vol. 67 No. 10, pp. 6490-6496, American Institute of Physics.	
ma		SELWYN, G.S. et al., "In situ Plasma Contamination Measurements by HeNe Laser Light Scattering: A Case Study," <i>J. Vac. Sci. Technol.</i> , May / June 1990, A 8, (3) pp. 1726-1731, American Vacuum Society.	
ma		SELWYN, G.S. et al., "Particle Trapping Phenomena in Radio Frequency Plasmas," <i>Appl. Phys. Letter</i> , October 29, 1990, Vol. 57, No. 18 pp. 1876-1878, American Institute of Physics.	
ma		AKARI, K. et al., "Reduction in Macroparticles During the Deposition of TiN Films Prepared by Arc Ion Plating," <i>Surface and Coatings Technology</i> , 1990, 43/44, pp. 312-323, Elsevier Sequoia, The Netherlands.	
ma		BARNES, M.S. et al., "Transport of Dust Particles in Glow-Discharge Plasmas," <i>Physical Review Letters</i> , January 20, 1992, Vol. 68, No. 3, pp. 313-316, The American Physical Society.	
ma		SMADI, M.M. et al., "Particle Contamination on a Silicon Substrate in a SF ₆ / Ar Plasma," <i>J. Vac. Sci. Technol.</i> , January/February 1992, B 10, (1) pp. 30-36, American Vacuum Society.	
ma		YOO, W.J. et al., "Kinetics of Particle Generation in Sputtering and Reactive Ion Etching Plasmas," <i>Appl. Phys. Letter</i> , March 2, 1992, Vol. 60, No. 9, pp. 1073-1075, American Institute of Physics.	
ma		LOGAN, J.S. et al., "Study of Particle Emission in Vacuum from Film Deposits," <i>J. Vac. Sci. Technol.</i> , July/August 1992, A 10, (4) pp. 1875-1878, American Vacuum Society.	
ma		GOREE J. et al., "Particulate Release from Surfaces Exposed to a Plasma," <i>J. Vac. Sci. Technol.</i> , November/December 1992, A 10, (6) pp. 3540-3544, American Vacuum Society.	

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ma		ANDERSON, L., "A New Technique for Arc Control in DC Sputtering," <i>Society of Vacuum Coaters 35th Annual Technical Conference Proceedings</i> , 1992, pp. 325-329.	
ma		NADEL, S.J. et al., "Enhanced Chromium First Surface Mirrors," <i>Society of Vacuum Coaters, 35th Annual Technical Conference Proceedings</i> , 1992, pp. 365-369.	
ma		SCHOLL, R.A., "A New Method of Handling Arcs and Reducing Particulates in DC Plasma Processing," <i>Society of Vacuum Coaters 37th Annual Technical Conference Proceedings</i> , 1994, pp. 312-315, Advanced Energy Industries, Inc.	
ma		LEE, F. et al., "Detecting and Reducing Particles for LPCVD Silicon Nitride Deposition," <i>Microcontamination</i> , March 1994, Vol. 12, pp. 33-37, 76-77.	
ma		BAILEY, R.S. et al., "Particle Emission from Al ₂ O ₃ Doped Aluminum Targets During Sputtering Deposition," <i>VMIC Conference, ISMIC</i> , June 7-8, 1994, p. 317.	
ma		TAKAHASHI, K.M. et al., "Current Capabilities and Limitations of <i>In Situ</i> Particle Monitors in Silicon Processing Equipment," <i>J. Vac. Sci. Technol.</i> , November/December 1996, A 14, (6) pp. 2983-2993, American Vacuum Society.	
ma		SELWYN, G.S. et al., "Particle Contamination Formation in Magnetron Sputtering Processes," <i>J. Vac. Sci. Technol.</i> , July/August 1997, A 15 (4), pp. 2023-2028, American Vacuum Society.	
ma		MONTEIRO, O.R. et al., "Vacuum-Arc-Generated Macroparticles in the Nanometer Range," <i>IEEE Transactions on Plasma Science</i> , August 1999, Vol. 27, No. 4, pp. 1030-1033, IEEE.	
m		ABBURI, M. et al., "Low-Defect Target Metallurgy Development for sub-0.18μm Al-based Interconnects," <i>Solid State Technology</i> , December 1999, Vol. 42, pp. 55-58, Solid State Technology.	

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